AMENDMENTS TO THE CLAIMS

1. (currently amended) A computer-implemented method comprising:

performing, using the computer, an analysis or synthesis operation on an executable graphical model representation that includes ~~at least one~~ executable graphical objects representing a dynamic system for simulation, where executing the executable graphical objects simulates the dynamic system represented by the executable graphical objects;

producing, using the computer, a report from the analysis or synthesis operation, while producing the report:[[;]]

generating, using the computer, one or more tags for one or more executable graphical objects of the executable graphical model representation provided in an executable graphical model editor program ~~while producing the report~~;

associating, using the computer, the one or more tags with the one or more executable graphical objects of the executable graphical model representation ~~while producing the report~~;

associating, using the computer, the one or more tags associated with [[an]]one of the executable graphical objects with portions of the produced report corresponding to the one of the executable graphical objects ~~while producing the report~~, wherein associating creates a selectable connection from the one of the executable graphical objects provided in the executable graphical model editor program to the portions of the produced report that correspond to the one of the executable graphical objects, the produced report provided in a document viewer as textual content;

completing, using the computer, production of the report;

receiving, using the computer, a selection ~~of an~~identifying one of the executable graphical objects in the executable graphical model representation upon completing the production of the report; and

displaying, using the computer, a location in the report corresponding to the selected executable graphical object in response to the selection on a display device.

2. (original) The method of claim 1 in which the report is a document structured with portions corresponding to different elements of the graphical model representation.

3. (original) The method of claim 2 in which the document is a structural coverage report.

4. (original) The method of claim 2 in which the document is a code generation report incorporating syntax highlighted code.

5. (original) The method of claim 2 in which the document is a profiling report that documents relative execution times of each of the elements.

6. (canceled)

7. (previously presented) The method of claim 1 in which the selection is made by a computer mouse action.

8. (previously presented) The method of claim 1 in which the one or more tags are markup language tags.

9. (original) The method of claim 8 in which the markup language tags are hypertext markup language (HTML) tags.

10. (original) The method of claim 1 in which the report is a model coverage report.

11. (original) The method of claim 1 in which the report is a generated code report.

12. (currently amended) A system comprising:

means for generating code for a simulatable graphical model representation including ~~a plurality of~~ simulatable graphical objects representing a dynamic system for simulation, where simulating the simulatable graphical objects simulates the dynamic system represented by the simulatable graphical objects;

means for performing an analysis or synthesis operation on the simulatable graphical model representation;

means for producing a report from the analysis or synthesis operation, the report being distinct from the generated code;

means for generating one or more tags for one or more simulatable graphical objects of the simulatable graphical model representation provided in a simulatable graphical model editor program while producing the report;

means for associating the one or more tags with the one or more simulatable graphical objects of the simulatable graphical model representation;

means for associating the one or more tags associated with [[a]]one of the simulatable graphical objects with portions of the produced report corresponding to the one of the simulatable graphical objects, wherein associating creates a selectable connection from the one of the simulatable graphical objects provided in the simulatable graphical model editor program to the portions of the produced report that correspond to the one of the simulatable graphical objects, the produced report provided in a document viewer as textual content;

means for completing production of the report;

means for referencing the one or more simulatable graphical objects of the simulatable graphical model representation with the one or more associated tags in the generated code;

means for receiving a selection ~~of a~~identifying one of the simulatable graphical objects in the simulatable graphical model representation upon completing the production of the report; and

means for displaying a location in the report corresponding to the selected simulatable graphical object in response to the selection.

13. (original) The system of claim 12 further comprising means for loading an element in the report in response to activating one of the graphical model elements.

14. (original) The system of claim 12 in which the report is a document structured with portions corresponding to different elements of the graphical model representation.

15. (original) The system of claim 14 in which the document is a structural coverage report.

16. (original) The system of claim 14 in which the document is a code generation report incorporating syntax highlighted code.

17. (original) The system of claim 14 in which the document is a profiling report that documents relative execution times of each of the elements.

18. (previously presented) The system of claim 12 in which the one or more tags are markup language tags.

19. (original) The system of claim 18 in which the markup language tags are hypertext markup language (HTML) tags.

20. (original) The system of claim 18 in which the markup language tags are portable document format (PDF) embedded links.

21. (original) The system of claim 12 in which the report is a model coverage report.

22. (original) The system of claim 12 in which the report is a generated code report.

23. (currently amended) A computer program product residing on a computer readable medium having instructions stored thereon which, when executed a processor, cause the processor to:

provide a simulatable graphical model including ~~a plurality of~~ simulatable graphical objects representing a dynamic system for simulation where simulating the simulatable graphical objects simulates the dynamic system represented by the simulatable graphical objects;

generate code for the simulatable graphical model during a simulation of the simulatable graphical model;

perform an analysis or synthesis operation on the simulatable graphical model representation;

produce a report from the analysis or synthesis operation, the report being distinct from the generated code and the report comprising information about the code generated during the simulation of the simulatable graphical model, while producing the report, the instructions cause the processor to:[[;]]

generate one or more tags for one or more simulatable graphical objects of the simulatable graphical model representation provided in a simulatable graphical model editor program ~~while producing the report~~;

associate the one or more tags with the ~~plurality of~~ one or more simulatable graphical objects of the simulatable graphical model representation;

associate the one or more tags associated with [[a]]one of the simulatable graphical objects with portions of the produced report corresponding to the one of the simulatable graphical objects, wherein associating creates a selectable connection from the one of the simulatable graphical objects provided in the simulatable graphical model editor program to the portions of the produced report that correspond to the one of the

simulatable graphical objects, the produced report provided in a document viewer as textual content;

complete production of the report;

receive a selection ~~of a~~identifying one of the simulatable graphical objects in the simulatable graphical model representation upon completing the production of the report; and

display a location in the report corresponding to the selected simulatable graphical object in response to the selection.

24. (canceled)